VU ANH XUAN

PYTHON DEVELOPER

CONTACT

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Ha Noi

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SKILLS

Programming and Scripting

- **Python**: Proficient in Python for data analysis, machine learning, and API development.
- **C/C++**: Knowledge of C/C++ for algorithmic implementations and performance optimization.

Machine Learning and Deep Learning Frameworks

- **TensorFlow/Keras**: Skilled in designing, training, and tuning deep learning models for structured and unstructured data.
- **Scikit-learn**: Experienced in implementing classical ML algorithms, feature engineering, and model evaluation.
- **OpenCV**: Knowledgeable in image processing techniques, used in computer vision projects for preprocessing and feature extraction.

Data Processing and Visualization

- **Pandas & NumPy**: Advanced in data manipulation, transformation, and handling of large datasets.
- **Matplotlib & Seaborn**: Skilled in data visualization to explore trends and present findings effectively.

OBJECTIVE

A driven Intern Python Developer with foundational knowledge in **Machine Learning**, **Deep Learning**, and hands-on experience in **Natural Language Processing** (NLP) and **Computer Vision**. Eager to contribute to real-world AI projects in a dynamic organization, where I can apply my technical skills to solve complex challenges and deliver impactful solutions. I aim to advance into a full-time role and grow into a skilled professional making meaningful contributions to AI innovation.

PROJECTS

Mar 2024 – May 2024 | AI developer

Symptom-Based Disease Classification API

- **Description**: Developed a web API to assist in initial diagnostics by predicting diseases based on user-input symptoms.
- **Features**:
  - Integrated SVM and LSTM models with rigorous preprocessing for robust predictions.
  - User-friendly API endpoints allowing seamless integration with healthcare applications.
  - Implemented validation and error handling for reliable API responses.
- **Responsibilities**:
  - Designed and deployed the API using Flask, managing data validation and routing.
  - Trained models with Scikit-learn and TensorFlow, focusing on optimizing model accuracy.
  - Documented API usage and sample queries for easier integration.
- **Technologies Used**: Python, Flask, Scikit-learn, TensorFlow, Pandas, NumPy, Matplotlib, Seaborn
- **Link**: GitHub - Disease Classification API

Jun 2024 – Aug 2024 | AI developer

Vietnamese Named Entity Recognition

- **Description**: Built a Vietnamese Named Entity Recognition (NER) model to improve NLP applications for Vietnamese text.
- **Features**:
  - Implemented BiLSTM model tailored for Vietnamese language characteristics.
  - Applied text preprocessing to handle Vietnamese-specific accents and symbols.
  - Developed a modular training pipeline for easy updates and extensions.
- **Responsibilities**:
  - Managed data preprocessing and handled Vietnamese text tokenization and normalization.
  - Trained and fine-tuned the BiLSTM model using TensorFlow, focusing on performance.
  - Prepared deployment documentation with example test cases for efficient model use.
- **Technologies Used**: Python, TensorFlow, Pandas, NumPy, Matplotlib
- **Link**: GitHub - Vietnamese Named Entity Recognition

SKILLS

Web and API Development

- **Flask**: Proficient in building RESTful APIs, used for deploying ML models and creating interactive applications.

Database and Version Control

- **SQL**: Familiar with relational database design, data querying, and efficient data storage.
- **Git**: Experienced in using Git for version control and collaborative development.

EDUCATION

Thuy Loi University

Oct 2021 – Present

Major: Artificial Intelligence and Data Science

GPA: 3.42/4.0

- **Relevant Coursework**: Machine Learning, Deep Learning and Applications, Natural Language Processing, Data Mining, Optimization, Time Series Analysis, Data Visualization, Data Preprocessing, and more.

PROJECTS

Aug 2024 – Oct 2024 | AI developer

Brain Tumor Classification and Segmentation on MRI Images

- **Description**: Developed an automated system for classifying and segmenting brain tumors in MRI scans to aid in medical diagnostics.
- **Features**:
  - Leveraged ResNet50 architecture for high-performance tumor classification.
  - Employed U-Net for precise segmentation, optimizing for accurate tumor boundary identification.
  - Customized preprocessing for MRI data to enhance input quality for model training.
- **Responsibilities**:
  - Designed, trained, and optimized ResNet50 and U-Net models, adapting them for medical imaging.
  - Applied data augmentation to improve model resilience against varied MRI scan conditions.
  - Conducted model evaluations and compiled detailed reports on findings and improvements.
- **Technologies Used**: Python, TensorFlow, NumPy, Pandas, Matplotlib, OpenCV
- **Link**: GitHub - Brain Tumor Classification and Segmentation